Date: February 3, 2004 Label No. EV147719203US

I hereby certify that, on the date indicated above, I deposited this paper with identified attachments and/or fee with the U.S. Postal Service and that it was addressed for delivery to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 by "Express Mail Post Office to Addressee" service.

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Stephanie Hill Lybranic Hill

Name (Print)

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: HABECKER et al.	)	Examiner: Unassigned
Application No.: Unassigned	)	
Application No.: Chassigned	)	Group Art Unit: Unassigned
Filed: February 3, 2004	)	
Docket No.: 99024CIPDIV2 (3600-234-03)	)	Confirmation No.: Unassigned

For: METHOD OF MAKING NIOBIUM AND OTHER METAL POWDERS

## INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 CFR 1.97(b)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

February 3, 2004

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO-1449. Documents were cited in parent Application No. 10/095,245, filed March 11, 2002 or grandparent Application No. 09/527,053 filed March 16, 2000. In accordance with M.P.E.P. §609, it is not necessary to provide copies of those documents with this filing.

This Information Disclosure Statement is being submitted before expiration of the threemonth period following filing of the above-captioned application.

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. See 37 CFR 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application,

Information Disclosure Statement

U.S. Patent Application No. Unassigned

and that the documents cited in the attached Form PTO-1449 be made of record therein and appear

on the first page of any patent to issue therefrom.

This submission does not represent that a search has been made or that no better art exists

and does not constitute an admission that each or all of the listed documents are material or

constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in

this application and applicant determines that the cited documents do not constitute "prior art" under

United States law, applicant reserves the right to present to the office the relevant facts and law

regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of

the disclosed invention over the listed documents, should one or more of the documents be applied

against the claims of the present application.

If there are any fees due in connection with the filing of this response, please charge the fees

to Deposit Account No. 03-0060.

Respectfully submitted,

Luke A. Kilyk

Reg. No. 33,251

Atty. Docket No.: 99024CIPDIV2 (3600-234-03)

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Enclosures:

PTO-1449

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FORM PTO-1449 (REV 7-80)			Atty. Docket No. 99024CIPDIV2 Appl (3600-234-03)			Application No. Unassigned		
INFORMATION DISCLOSURE STATEMENT		APPLICANT: Habecker et al.						
INTORNATION DISCLOSURE STATEMENT			Filing Date: February 3, 2004			Group Art Unit: Unassigned		
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EXAMINER'S INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS			DATE, IF
	2002/0134196 A1	9/26/02	Naito	75	245	245		
	2002/0124687 A1	9/12/02	Habecker et al.	75	230			<del></del>
	2002/0104404 A1	8/8/02	Naito	75	245			
	2003/0089197 A1							
	2002/0064476 A1	5/30/02	Omori et al.	419	61			
	2003/0026061 A1	2/6/03	Naito	361	311			
	6,115,235	9/5/00	Naito	361	303			
	6,136,062	10/24/00	Loffelholz et al.	75	369			
	6,215,652 B1	4/10/01	Yoshida et al.	361	524			
	6,347,032 B2	2/12/02	Naito	361	303			
	6,375,704 B1	4/23/02	Habecker et al.	75	229			
	6,387,150 B1	5/14/02	Naito	75	245			
	6,402,066 B1	6/11/02	Habecker et al.	241	21			
	6,423,110 B1	7/23/02	Naito et al.	75	232			
	6,452,777 B1	9/17/02	Naito	361	303			
	6,540,810 B2	4/1/03	Naito et al.	75	255			
	6,558,447 B1	5/6/03	Shekhter et al.	75	252			
	3,295,951	01/1967	Fincham et al.	420	427			
	4,787,561	11/1988	Kemp et al.	241	30			
-	5,328,501 07/1994		McCormick et al 75		352			
		FOREIG	N PATENT DOCU	MENTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS		RANSL.	ATION NO
	OTHER DOCUMEN	TS (Includin	g Author, Title, Dat	e, Pertinent P	ages, Etc.	.)		
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*EXAMINER: Ir	nitial if reference considered,	whether or n	ot citation is in conf	formance with	n MPEP 6	09; Dr	aw line	through

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

			MATION DISCLOSUF Use several sheets if ne				
Atty. Docket	No.: 99024CIPDIV2 (3	3600-234-03)	Application No.:	To Be Assigned			
Applicant:	HABECKER et al.	<u>.</u>	1	<del></del>			
Filing Date:	February 3, 2004		Group Art Unit:				
			J.S. PATENT DOCUM	MENTS			
Examiner Initial*	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate	
	1,415,516	9/1922	Bridge	75	614		
	2,242,759	05/1941	Schlect et al.	75	395		
	3,418,106	12/24/68	Piettet	75	.5 BB		
<u> </u>	3,496,076	02/17/70	Cheseldine	204	56		
	3,630,718	12/28/71	Neuenschwander	75	0.5		
	3,635,693	01/18/72	Friedrich et al.	75	0.5BB		
	3,647,420	03/07/72	Restelli	75	84		
	3,709,439	01/09/73	Tundermann et al.	241	15		
	3,926,567	12/16/75	Fletcher et al.	29	182.5		
	4,009,007	2/22/77	Fry	29	182.5	, , , ,	
<del></del>	4,017,302	04/12/77	Bates et al.	75.5 BB	75/228	·	
	4,084,965	04/18/78	Fry	75	230		
	4,141,720	02/27/79	Vartanian	75	0.5BB		
	4,149,876	1/17/79	Rerat	75	0.5		
<del>-</del> -	4,231,790	11/04/80	Hähn et al.	75	0.5BB		
	4,347,084	08/31/82	Hähn et al.	75	245		
	4,356,028	10/26/82	Bates	75	0.5		
	4,406,699	9/1983	Beck et al.	75	233		
	4,441,927	4/10/84	Getz et al.	75	229	<u></u>	
	4,483,819	11/20/84	Albrecht et al.	419	2		
	4,512,805	04/23/85	Albrecht et al.	75	244	-	
	4,537,633	08/27/85	Hong	106	96		
	4,537,641	08/27/85	Albrecht et al.	148	11.5		

3 of 5

						3 01 5
	4,544,403	10/1/85	Schiele et al.	75	0.5	
	4,548,672	10/22/85	Albrecht et al.	156	646	
	4,555,268	11/26/85	Getz	75	229	
	4,569,693	02/11/86	Albrecht et al.	75	252	
	4,684,399	08/04/87	Bergman et al.	75	0.5BB	
	4,722,756	02/02/88	Hard	148	126	
	4,740,238	04/26/88	Schiele	75	0.5BB	
·	4,748,737	06/1988	Charles et al.	29	599	
	4,940,490	07/10/90	Fife et al.	75	229	
	4,954,169	09/04/90	Behrens	75	228	
	5,211,741	05/18/93	Fife	7	255	
	5,234,491	08/10/93	Chang	75	622	·
	5,242,481	09/07/93	Kumar	75	364	
	5,245,514	09/14/93	Fife et al.	361	529	
	5,261,942	11/16/93	Fife et al.	75	342	
	5,284,531	02/08/94	Fife	148	513	
	5,412,533	05/02/95	Murayama et al.	361	528	
	5,448,447A	9/5/95	Chang	361	529	
	5,580,367	12/3/96	Fife	75	255	
	5,837,030	11/17/98	Schulz et al.	75	352	· · · · · · · · · · · · · · · · · · ·
	6,007,597	12/1999	Puopolo et al.	75	10.14	
	6,051,044	04/18/00	Fife	75	229	
		FOR	EIGN PATENT DOC	CUMENTS	_ <b> </b>	
	Document Number	Date	Country	Class	Sub Class	Translation Yes or No
	CN 1079333A	12/08/93	China			
	CN 87 1 07675 A	05/18/88	China			
	JP 58154221 A	09/13/83	Japan			
	JP 01084656	29/03/89	Japan			
	JP 80027601 B	07/22/80	Japan			
. <u>.</u>	JP 61 291901 A	12/22/86	Japan			

	JP 04 160105 A	06/03/92	Japan			Yes (Abstract)				
	1,057,995 A	11/30/83	Russia		_					
	1,556,420 A3	02/28/94	Russia							
	1,123,015	08/04/65	United Kingdom							
	1 549 702A	8/1/79	United Kingdom			.,,				
	WO 98/19811	5/14/98	PCT							
-	0 953 847 A1	03/11/99	Europe	G01R	31/26					
	0 559 229 A1	05/03/93	Europe	C23C	24/04					
	OTHER I	OCUMENTS (	Including Author, Title	e, Date, Pert	inent Pages,	Etc.)				
. <del></del> .	Development Labor	ratory, DK Task I	Nr. 3A99-15-003-04, pp rystallization Peculiariti	. 1-11 (No d	ate available)	S. Army Signal Research and Films" Fizika I Khimiya				
		•	<u> </u>	v Metals and	l Hard Materio	als. 12:335-340 (1993-1994)				
	Bord et al., "Qualit	Eckert, "Niobium Compounds and Alloys," <i>Int. J. Refractory Metals and Hard Materials, 12</i> :335-340 (1993-1994)  Bord et al., "Quality of Niobium Oxide Semiconductor Capacitors as a Function of Chemical Composition of the Niobium Powder," No. 1(46):11-15 (1982)								
	Schwartz et al., "Niobium Solid Electrolytic Capacitors," J. Electrochemical Society, 108(8):750-757 (1961)									
	Al-Kharafi et al., "Phosphoric Acid Passivated Niobium and Tantalum EIS-Comparative Study," <i>Electrochimica Acta</i> 40(16):2623-2626 (1995)									
	· · · · · · · · · · · · · · · · · · ·	Jackson et al., "The Use of Niobium as an Anode Material in Liquid Filled Electrolytic Capacitors,"  Electrocomponent Science and Technology, 1:27-37 (1974)								
	J. Electrochemical	J. Electrochemical Society: Reviews and News, 24(12):408C-409C (December 1977)								
•	Orlov et al., "Study	Orlov et al., "Study of Oxygen Solubility in Niobium," Izvestiya Akademii Nauk SSSR. Metally, 5:202-205 (1985)								
	•	Krehl et al., "The Influence of Gas Atmospheres on the First-Stage Sintering of High-Purity Niobium Powders,"  Metallurgical Transactions A, 15A:1111-1116 (June 1984)								
	Mifune et al., "Niob	Mifune et al., "Niobium Solid Electrolytic Capacitors," National Technical Report 9:147 (1963)								
	·	Levinsky et al., "Change in Porous Structure and Leakage Currents of Niobium Capacitor Anodes During Electrolytic Oxidation," <i>Poroshkovaya Metallurgiya</i> , 3:56-59 (1991)								
<del> </del>	Patent Abstracts of	Patent Abstracts of Japan, vol. 13, no. 312 (E-788). 17 July 19879 & JP 01 084656A, 29 March 1989 (see Abstract)								
**	Patent Abstracts of .	Japan, vol. 6. No.	109 (M-137), 19 June 19	982 & JP 57	039043A, 4 M	arch 1982 (See Abstract)				
	Kuz' micheva, et al., (1993)	"Superconductivi	ty in lathanide-strontium-	-niobium-oxi	de systems" Sh	. Neorg. Khim. 38(1), 162-6.				
	Acrivos, et al., "Dyn pp. 12710-23. (1994		in superconducting oxide	s measured b	y ESR" Phys. I	Rev. B: Condens. Matter, 50(18				

	Acrivos, et al., "Dynamics of flux motion" Physica C (Amsterdam) 234-40(Pt. 5), pp. 3159-60. (1994)  International Search Report for International Application PCT/US97/19949 published 5/14/98.  International Search Report for International Application PCT/US00/07051 dated 07/20/2000					
Examiner		Date Considered				
*Examiner:		citation is in conformance with MPEP 609; draw line the copy of this form with next communication to applicant				
Form PTO 144	49	Patent and Trademark Office - U.S. Dep	partment of Commerce			